



SIMTICS Medical Professional: Clinical Module Outlines

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Arterial Line Insertion for Medical Professionals

Description

This module teaches you how to safely prepare for and perform the insertion of an arterial line into the three main sites.

Learning objectives

- Describe pre-procedure considerations for arterial line insertion.
- Describe and demonstrate the preparation for arterial line insertion.
- Describe laboratory safety according to Occupational Safety and Health Administration (OSHA) guidelines.
- Describe and demonstrate correct identification of the collection site.
- Describe and demonstrate the correct technique for performing arterial line insertion.
- Describe correct post-procedure considerations.
- Describe correct recording and reporting procedures.
- Define and use related medical terminology.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray preparation
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Cleanse the skin and infiltrate local anesthetic
- Step 3 - Palpate for the pulse and insert the needle
- Step 4 - Insert the catheter into the artery
 - Step 4.1 - Catheter-over-needle technique
 - Step 4.2 - Seldinger technique
 - Step 4.2.1 - Integrated Seldinger wire
 - Step 4.2.2 - Separate Seldinger wire
- Step 5 - Secure the catheter

Central Venous Catheterization – Internal Jugular for Medical Professionals

Description

This module teaches you how to safely prepare for and insert a central venous catheter into the jugular vein.

Learning objectives

- Describe pre-procedural considerations for an internal jugular central venous catheter placement.
- Describe and demonstrate the preparation for an internal jugular central venous catheter placement.

- Identify and demonstrate the proper positioning and technique for internal jugular central venous catheter placement.
- Identify the anatomical landmarks used for insertion.
- Describe and demonstrate the approaches for cannulation and how to secure the cannula.
- Describe and demonstrate proper hand hygiene and skin preparation.
- Describe and demonstrate the proper procedure for cleansing the site and infiltrating local anesthetic.
- Identify and demonstrate the proper performance of the modified Seldinger technique.
- Describe and demonstrate the correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Define and use related medical terminology.
- Understand Occupational Safety and Health Administration (OSHA) guidelines.
- Understand correct post-procedure considerations.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Step 1 - Preparation

Step 1.1 - Tray preparation

Step 1.2 - Patient preparation

Step 1.3 - Operator preparation

Step 2 - Cleanse the skin and infiltrate local anesthetic

Step 3 - Insert the needle into the internal jugular vein

Step 4 - Advance the guidewire through the syringe and needle

Step 5 - Incise the skin at the puncture site

Step 6 - Advance the dilator over the guidewire

Step 7 - Advance the catheter over the guidewire

Step 8 - Remove the guidewire

Step 9 - Flush the catheter

Step 10 - Secure the catheter

Central Venous Catheterization – Subclavian for Medical Professionals

Description

This module teaches you how to safely prepare for and insert a central venous catheter into the subclavian vein.

Learning objectives

- Describe pre-procedural considerations for a subclavian central venous catheter placement.
- Describe and demonstrate the preparation for a subclavian central venous catheter placement.
- Identify and demonstrate the proper positioning and technique for a subclavian central venous catheter placement.
- Identify the anatomical landmarks used for insertion.
- Describe and demonstrate the approaches for cannulation and how to secure the cannula.
- Describe and demonstrate proper hand hygiene and skin preparation.
- Describe and demonstrate the proper procedure for cleansing the site and infiltrating local anesthetic.

- Identify and demonstrate the proper performance of the modified Seldinger technique.
- Describe and demonstrate the correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Define and use related medical terminology.
- Understand Occupational Safety and Health Administration (OSHA) guidelines.
- Understand correct post-procedure considerations.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Step 1 - Preparation

Step 1.1 - Tray preparation

Step 1.2 - Patient preparation

Step 1.3 - Operator preparation

Step 2 - Cleanse the skin and infiltrate local anesthetic

Step 3 - Insert the needle into the subclavian vein

Step 4 - Advance the guidewire through the syringe and needle

Step 5 - Incise the skin at the puncture site

Step 6 - Advance the dilator over the guidewire

Step 7 - Advance the catheter over the guidewire

Step 8 - Remove the guidewire

Step 9 - Flush the catheter

Step 10 - Secure the catheter

Digital Block for Medical Professionals

Description

This module teaches you how to safely prepare for and perform a digital block of the fingers.

Learning objectives

- Describe the pre-procedure considerations for a digital block.
- Describe and demonstrate the preparation for a digital block.
- Describe and demonstrate how to perform a digital block using aseptic technique, including:
 - cleansing of the block site
 - the correct position and angle of each needle insertion on the digit
 - the correct technique of infiltration of local anesthesia around the digit
- Identify and understand the various types, doses, and maximum limits of local anesthesia.
- Describe and demonstrate the correct post-procedure considerations.
- Describe the hazards of a digital block.
- Define and demonstrate correct recording and reporting procedures.
- Define and use related medical terminology.
- Understand Occupational Safety and Health Administration (OSHA) guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Step 1 - Preparation

Step 1.1 - Tray preparation

Step 1.2 - Patient preparation

- Step 1.3 - Operator preparation
- Step 2 - Cleanse the digit
- Step 3 - Insert the needle and infiltrate local anesthetic
- Step 4 - Repeat the procedure on the opposite side of the finger
- Step 5 - Infiltrate the dorsum of the finger

Intercostal Drain Insertion (Mattress Suture Technique) for Medical Professionals

Description

This module teaches you how to safely prepare for and perform the insertion of an intercostal drain, using the mattress suture technique.

Learning objectives

- Describe pre-procedural considerations for an intercostal drain insertion.
- Describe and demonstrate the preparation for an intercostal drain insertion.
- Identify and demonstrate the proper positioning and technique for an intercostal drain insertion.
- Identify the anatomical landmarks used for insertion.
- Describe and demonstrate the provision and maintenance of an aseptic operative field.
- Identify and demonstrate the correct placement of sutures, using the mattress suture technique.
- Identify and demonstrate the correct steps of the procedure, with possible drawbacks and variations in technique.
- Describe and demonstrate the correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Define and use related medical terminology.
- Understand Occupational Safety and Health Administration (OSHA) guidelines.
- Understand correct post-procedure considerations.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray setup
 - Step 1.2 - Patient preparation
- Step 2 - Infiltrate local anesthetic
- Step 3 - Make a skin incision
- Step 4 - Insert skin sutures
- Step 5 - Perform blunt dissection through the chest wall
- Step 6 - Explore the pleural cavity digitally
- Step 7 - Insert the chest drain
- Step 8 - Secure the drain
- Step 9 - Connect the drain
- Step 10 - Apply a dressing

Intercostal Drain Insertion (Simple Technique) for Medical Professionals

Description

This module teaches you how to safely prepare for and perform the insertion of an intercostal drain, using the simple technique.

Learning objectives

- Describe pre-procedural considerations for an intercostal drain insertion.
- Describe and demonstrate the preparation for an intercostal drain insertion.
- Identify and demonstrate the proper positioning and technique for an intercostal drain insertion.
- Identify the anatomical landmarks used for insertion.
- Describe and demonstrate the provision and maintenance of an aseptic operative field.
- Identify and demonstrate the correct placement of sutures, using the simple suture technique.
- Identify and demonstrate the correct steps of the procedure, with possible drawbacks and variations in technique.
- Describe and demonstrate the correct post-procedure considerations.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray setup
 - Step 1.2 - Patient preparation
- Step 2 - Infiltrate local anesthetic
- Step 3 - Make a skin incision
- Step 4 - Perform blunt dissection through the chest wall
- Step 5 - Explore the pleural cavity digitally
- Step 6 - Insert the chest drain
- Step 7 - Secure the drain
- Step 8 - Connect the drain
- Step 9 - Apply a dressing

Intercostal Drain Removal (Mattress Suture Technique) for Medical Professionals

Description

This module teaches you how to safely prepare for and perform the removal of an intercostal drain, using the mattress suture technique.

Learning objectives

- Describe pre-procedural considerations for an intercostal drain removal.
- Describe and demonstrate the preparation for an intercostal drain removal.
- Identify proper drain removal technique.

- Describe how to instruct the patient on maintaining positive intrathoracic pressure, prior to removing the drain.
- Describe and demonstrate how to safely remove the drain without introducing a pneumothorax.
- Describe post-procedural considerations for an intercostal drain removal.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray setup
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Ensure positive intrathoracic pressure
- Step 3 - Remove the chest drain

Intercostal Drain Removal (Simple Technique) for Medical Professionals

Description

This module teaches you how to safely prepare for and perform the removal of an intercostal drain, using the simple technique.

Learning objectives

- Describe pre-procedural considerations for an intercostal drain removal.
- Describe and demonstrate the preparation for an intercostal drain removal.
- Identify proper drain removal technique.
- Describe how to instruct the patient on maintaining positive intrathoracic pressure, prior to removing the drain.
- Describe and demonstrate how to safely remove the drain without introducing a pneumothorax.
- Describe post-procedural considerations for an intercostal drain removal.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray setup
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Prepare a dressing
- Step 3 - Ensure positive intrathoracic pressure
- Step 4 - Remove the chest drain
- Step 5 - Apply a transparent waterproof dressing

Laparoscopic Appendectomy for Medical Professionals

Description

This module teaches you how to safely prepare for and perform a laparoscopic appendectomy.

Learning objectives

- Describe pre-procedural considerations for a laparoscopic appendectomy.
- Describe and demonstrate how to perform a safe and effective laparoscopic appendectomy.
- Identify and demonstrate proper insertion of laparoscopic ports.
- Identify and describe the pathology structures to inspect upon entering the abdominal cavity.
- Describe potential complications of the procedure and alternative variations in technique.
- Describe and demonstrate the appropriate steps to safely remove the laparoscopic equipment.
- Describe and demonstrate how to divide and remove the appendix.
- Describe and demonstrate the proper technique of wound closure.
- Describe and demonstrate post-procedure considerations and documentation for a laparoscopic appendectomy.

Table of contents

- Step 1 - Telescope insertion and general inspection
 - Step 1.1 - Insertion of Hasson cannula and camera
 - Step 1.2 - General inspection of the abdominal cavity
- Step 2 - Insertion of the 2nd and 3rd ports
 - Step 2.1 - Insertion of the 2nd port
 - Step 2.2 - Insertion of the 3rd port
 - Step 2.3 - Transfer of the telescope to the left iliac fossa port
- Step 3 - Inspection of the uterus, ovary and fallopian tubes (female patients only)
- Step 4 - Inspection of the distal terminal ileum
- Step 5 - Dissection of the appendiceal mesentery
 - Step 5.1 - Identification of the appendix
 - Step 5.2 - Dissection of the mesoappendix and the fibrous attachments
- Step 6 - Ligation of the appendix
- Step 7 - Division of the appendix
- Step 8 - Removal of the appendix
- Step 9 - Final inspection and wound closure
 - Step 9.1 - Final inspection
 - Step 9.2 - Wound closure

Lumbar Puncture for Medical Professionals

Description

This module teaches you how to safely prepare for and perform a lumbar puncture.

Learning objectives

- Describe the pre-procedure considerations for a lumbar puncture.
- Describe and demonstrate the preparation for a lumbar puncture.
- Describe and demonstrate the proper positioning and technique for a lumbar puncture.
- Identify the anatomical landmarks used for insertion.
- Describe and demonstrate how to perform a lumbar puncture using aseptic technique.
- Identify the correct insertion site used in a lumbar puncture.
- Describe and demonstrate ascertaining the correct depth for the spinal needle insertion.
- Describe and demonstrate how to measure the cerebrospinal fluid (CSF) pressure.
- Identify and understand the correct cerebrospinal fluid (CSF) collection and analysis.
- Describe and demonstrate the correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Define and use related medical terminology.
- Understand Occupational Safety and Health Administration (OSHA) guidelines.
- Understand correct post-procedure considerations.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Step 1 - Preparation

Step 1.1 - Tray preparation

Step 1.2 - Patient preparation

Step 1.2.1 - Identify the anatomical landmarks

Step 1.2.2 - Position the patient

Step 1.2.3 - Clean and drape the operative area

Step 1.3 - Operator preparation

Step 2 - Infiltrate the local anesthetic

Step 3 - Introduce the spinal needle

Step 4 - Measure the cerebrospinal fluid (CSF) pressure

Step 4.1 - Prepare the manometer

Step 4.2 - Attach the manometer to the needle

Step 5 - Collect the cerebrospinal fluid (CSF) specimens

Step 6 - Remove the needle and apply a dressing

Nasogastric Tube Insertion for Medical Professionals

Description

This module teaches you how to safely prepare for and perform the insertion of an NGT.

Learning objectives

- Describe pre-procedural considerations for a nasogastric tube insertion.
- Describe and demonstrate the preparation for a nasogastric tube insertion.
- Understand how to assess the patient's nasal passages to identify the appropriate location for tube insertion.
- Describe and demonstrate how to measure and determine the appropriate length of tube to be inserted.
- Identify the proper technique for tube insertion into the stomach.
- Describe and demonstrate confirmation of the tube position.
- Demonstrate how to secure the tube.
- Describe post-procedural considerations for a nasogastric tube insertion.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray preparation
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Assess the patient's nasal passages
- Step 3 - Determine the length of tube to be inserted
- Step 4 - Lubricate the tube
- Step 5 - Insert the nasogastric tube
- Step 6 - Confirm the position of the tube
- Step 7 - Secure the tube

Venipuncture for Medical Professionals

Description

This module covers how to prepare for and perform safe and correct methods for blood collection, using the vacuum collection technique and evacuated tube method.

Learning objectives

- Describe and demonstrate the preparation for venipuncture.
- Describe and demonstrate correct identification of the venipuncture site.
- Describe and demonstrate the vacuum method of blood collection.
- Identify and demonstrate the use of different collection tubes.
- List and describe the proper order of draws in venipuncture blood collection.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.1.1 - Vacuum collection technique

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 1.3.1 - Position the patient

Step 2 - Identify the appropriate collection site

Step 2.1 - Expose the intended puncture site

Step 2.2 - Apply the tourniquet

Step 2.3 - Palpate the vein

Step 3 - Clean the site

Step 4 - Obtain the blood sample

Step 4.1 - Evacuated tube collection technique

Step 5 - Prepare the blood sample

Step 5.1 - Prepare blood-collection tubes

Step 6 - Apply the dressing

Step 7 - Complete the procedure

Venous Cannulation for Medical Professionals

Description

This module teaches you how to safely prepare for and perform the insertion of a venous cannula.

Learning objectives

- Describe and demonstrate the preparation for venous cannulation.
- Describe and demonstrate correct identification of the venous cannulation site.
- Describe and demonstrate various site specific variations to procedure techniques.
- Identify and demonstrate the application of safety procedures.
- List and describe the proper steps to perform venous cannulation.

Table of contents

Step 1 - Preparation

Step 1.1 - Tray preparation

Step 1.2 - Patient preparation

Step 1.3 - Operator preparation

Step 2 - Select a site and apply a tourniquet

Step 3 - Cleanse the site

Step 4 - Insert the needle

Step 5 - Advance the cannula into the vein

Step 6 - Flush the cannula

Step 7 - Secure the cannula

Administer Intradermal Injections for Medical Professionals

Description

This module explains how to prepare for and administer intradermal injections into the various sites (anterior forearm, upper chest, upper back) using medication from vials and ampules.

Learning objectives

- Describe and demonstrate the preparation necessary for administering intradermal injections.
- Describe and demonstrate needle and blood safety.
- Describe and demonstrate appropriate needle and syringe selection for an intradermal injection.
- Describe and demonstrate the preparation of the medication to be injected intradermally.
- Describe and demonstrate suitable injection sites for intradermal injections.
- Describe and demonstrate safe and correct administration of an intradermal injection.
- Understand and apply Occupational Safety and Health Administration (OSHA) guidelines.
- Understand and apply drug administration safety guidelines (seven rights).
- Understand correct post-procedure considerations.
- Describe and demonstrate correct recording and reporting procedures.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Choose and inspect the injection site

Step 2.1 - Select a site

Step 2.1.1 - Anterior forearm

Step 2.1.2 - Upper chest

Step 2.1.3 - Upper back

Step 2.2 - Position the patient

Step 2.3 - Inspect the intended injection site

Step 3 - Clean the site

Step 4 - Administer the intradermal injection

Step 5 - Complete the procedure

Administer Intramuscular Injections for Medical Professionals

Description

This module explains how to prepare for and administer intramuscular injections into the various sites (deltoid, vastus lateralis, dorsogluteal, ventrogluteal) using powdered and liquid medication.

Learning objectives

- Describe and demonstrate the preparation for administering an intramuscular injection.
- Describe and demonstrate suitable injection sites for intramuscular injections.
- Describe and demonstrate appropriate needle and syringe selection for intramuscular injections.
- Describe and demonstrate correct preparation of the medication to be injected.
- Describe and demonstrate methods for reducing patient discomfort.
- Describe and demonstrate safe and correct administration of intramuscular injections using the deltoid, vastus lateralis, and dorsogluteal sites.
- Describe and demonstrate needle and blood safety.
- Understand and apply the correct post-procedure considerations.
- Define and demonstrate correct documentation.
- Understand and apply Occupational Safety and Health Administration (OSHA) guidelines.
- Understand and apply the appropriate drug safety guidelines (seven rights).
- Define and use related medical terminology.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patient's Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Choose and inspect the injection site

Step 2.1 - Select site

Step 2.1.1 - Deltoid

Step 2.1.2 - Vastus lateralis

Step 2.1.3 - Dorsogluteal

Step 2.1.4 - Ventrogluteal

Step 2.2 - Position the patient

Step 2.3 - Inspect the intended site

Step 3 - Clean the injection site

Step 4 - Administer the intramuscular injection

Step 4.1 - Standard technique

Step 4.2 - Z-track technique

Step 5 - Apply the dressing

Step 6 - Complete the procedure

Administer Subcutaneous Injections for Medical Professionals

Description

This module explains how to prepare for and administer subcutaneous injections into the various sites (arm, thigh, or abdomen) using medication from vials and ampules.

Learning objectives

- Describe and demonstrate the preparation for administering a subcutaneous injection.
- Describe and demonstrate needle and blood safety.
- Describe and demonstrate suitable injection sites for subcutaneous injections.
- Discuss the appropriate needle and syringe sizes for subcutaneous injection.
- Describe and demonstrate the preparation of the substance to be injected.
- Describe and demonstrate safe and correct administration of a subcutaneous injection.
- Understand and apply Occupational Safety and Health Administration (OSHA) guidelines.
- Understand and apply drug administration safety guidelines (seven rights).
- Understand correct post-procedure considerations.
- Describe and demonstrate correct documentation.
- Define and demonstrate correct recording and reporting procedures.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Choose and inspect the injection site

Step 2.1 - Select a site

Step 2.1.1 - Upper arm

Step 2.1.2 - Anterolateral thigh

Step 2.1.3 - Abdomen

Step 2.2 - Position the patient

Step 2.3 - Inspect the intended injection site

Step 3 - Clean the site

Step 4 - Administer the subcutaneous injection

Step 5 - Apply the dressing

Step 6 - Complete the procedure

Arterial Blood Sampling for Medical Professionals

Description

This module teaches you how to safely prepare for and obtain arterial blood samples from the three main sites (radial, femoral, or dorsalis pedis arteries) for blood gas analysis.

Learning objectives

- Describe the pre-procedure considerations for arterial blood sampling.
- Describe and demonstrate how to examine the status of a pulse before commencing the procedure.
- Identify and understand when and how to interpret an Allen's test.
- Describe and demonstrate the procedure for interpreting an Allen's test:
 - positioning of the patient
 - cleansing of the puncture site
 - the angle of needle entry
 - the depth of needle insertion
 - collection of the sample
 - removal of the needle and application of pressure at the puncture site
 - placement of the sample in ice
- Describe the correct post-procedure considerations.
- Define and demonstrate the correct reporting and documentation procedures.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Step 1 - Preparation

Step 1.1 - Patient preparation

Step 1.2 - Tray preparation

Step 1.3 - Operator preparation

Step 2 - Cleanse the skin and infiltrate local anesthetic

Step 3 - Palpate for the pulse and insert the needle

Step 4 - Obtain the blood sample and remove the needle

Step 5 - Send the sample for analysis

Bimanual Pelvic Exam for Medical Professionals

Description

This module covers the technique of a bimanual pelvic examination.

Learning objectives

- Describe pre-procedural considerations for a bimanual pelvic examination.
- Describe and demonstrate the preparation for a bimanual pelvic examination.
- Identify and demonstrate the proper positioning and technique for a bimanual pelvic examination.
- Identify the anatomical structures used in an exam.
- Describe and demonstrate how to perform an examination of the pelvic structures.
- Describe and demonstrate the correct post-procedure considerations.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray setup
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Inspect and examine the external genitalia
- Step 3 - Perform bimanual examination

Cervical Smear for Medical Professionals

Description

This module teaches you how to prepare for and assist with a cervical smear.

Learning objectives

- Describe and demonstrate the preparation for a cervical smear.
- Describe pre-procedural considerations for a cervical smear.
- Identify and demonstrate the proper positioning and technique for a cervical smear.
- Identify the appropriate structures to inspect and examine.
- Describe and demonstrate how to safely insert and remove the speculum.
- Identify how to locate the cervix.
- Describe and demonstrate how to obtain a cervical smear using a spatula, Cervex brush, or Cytobrush.
- Describe and demonstrate how to transfer and prepare the sample.
- Describe correct post-procedure considerations.
- Describe correct recording and documentation procedures.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray Preparation
 - Step 1.2 - Patient Preparation
 - Step 1.3 - Operator Preparation
- Step 2 - Inspect and examine the external genitalia
- Step 3 - Insert the speculum
- Step 4 - Inspect the cervix
- Step 5 - Obtain cervical smear using a spatula
 - Step 5.1 - Sampling with the spatula
 - Step 5.2 - Transferring and preparing the sample
 - Step 5.2.1 - Transferring cells
 - Step 5.2.2 - Rinsing
- Step 6 - Obtain cervical smear using a Cervex or Cytobrush
 - Step 6.1 - Sampling with the Cytobrush
 - Step 6.2 - Sampling with the Cervex brush
 - Step 6.3 - Transferring and preparing the sample
 - Step 6.3.1 - Transferring cells
 - Step 6.3.2 - Preparing the sample
- Step 7 - Remove the speculum

Digital Rectal Examination for Medical Professionals

Description

This module teaches you how to prepare for and assist with a digital rectal examination.

Learning objectives

- Describe and demonstrate the preparation for a digital rectal examination.
- Describe pre-procedural considerations for a digital rectal examination.
- Identify and demonstrate the proper positioning and technique for a digital rectal examination.
- Identify the pathology observed and understand the importance of assessing the anal and perianal region.
- Describe and demonstrate an examination of the rectal and anal mucosa.
- Describe and demonstrate an examination of the male prostate and the female rectovaginal septum.
- Describe the assessment of the contents on the glove.
- Describe and demonstrate how to prepare for and insert the examining finger.
- Describe the assessment of sphincter tone.

Table of contents

Step 1 - Preparation

Step 1.1 - Set-up

Step 1.2 - Patient preparation

Step 1.3 - Operator preparation

Step 2 - Inspect the anal and perianal region

Step 3 - Perform the digital rectal examination

Step 4 - Palpate the prostate in men, or perform a rectovaginal exam in women

Step 5 - Assess the anal tone

Step 6 - Assess the fecal material

Step 7 - Additional steps

Step 8 - Make the patient comfortable

Female Bladder Catheterization for Medical Professionals

Description

This module covers the technique of female bladder catheterization, including certain aspects of the procedure that require attention in the female urethra.

Learning objectives

- Describe pre-procedural considerations for a female urinary bladder catheterization.
- Describe and demonstrate the preparation for a female urinary bladder catheterization.
- Identify the proper catheter type and size.
- Describe and demonstrate a safe method of catheter insertion while maintaining an aseptic technique.

- Identify and demonstrate the correct depth of catheter insertion.
- Describe and demonstrate how to properly secure and anchor a catheter connection.
- Describe and demonstrate the correct post-procedure considerations.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray preparation
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Test the equipment and prepare the operative area
 - Step 2.1 - Test the equipment
 - Step 2.2 - Prepare the operative area
- Step 3 - Lubricate the catheter tip
- Step 4 - Insert the catheter into the bladder
- Step 5 - Secure the catheter

Male Bladder Catheterization for Medical Professionals

Description

This module covers the technique of male bladder catheterization.

Learning objectives

- Describe pre-procedural considerations for a male urinary bladder catheterization.
- Describe and demonstrate the preparation for a male urinary bladder catheterization.
- Identify the proper catheter type and size.
- Describe and demonstrate a safe method of catheter insertion while maintaining an aseptic technique.
- Identify and demonstrate the correct depth of catheter insertion.
- Describe and demonstrate how to properly secure and anchor a catheter connection.
- Describe the risks associated with an uncircumcised patient.
- Describe and demonstrate the correct post-procedure considerations.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray preparation
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Test the equipment and prepare the operative area
 - Step 2.1 - Test the equipment
 - Step 2.2 - Prepare the operative area
- Step 3 - Instill lubricating jelly
- Step 4 - Insert the catheter into the bladder
- Step 5 - Secure the catheter

Proctoscopy for Medical Professionals

Description

This module teaches you how to prepare for and assist with a proctoscopy.

Learning objectives

- Describe and demonstrate the preparation for a proctoscopy.
- Describe pre-procedural considerations for a proctoscopy.
- Identify and demonstrate the proper positioning and technique for a proctoscopy.
- Identify the appropriate structures to inspect and examine.
- Describe and demonstrate how to perform a digital rectal examination.
- Describe and demonstrate how to safely insert and remove the proctoscope.
- Describe how to properly inspect the anorectal mucosa.
- Describe correct post-procedure considerations.
- Describe correct recording and documentation procedures.

Table of contents

Step 1 - Preparation

Step 1.1 - Tray preparation

Step 1.2 - Patient preparation

Step 1.3 - Operator preparation

Step 2 - Perform a digital rectal examination

Step 3 - Lubricate the proctoscope

Step 4 - Introduce the proctoscope into the rectum

Step 5 - Assess the ano-rectal mucosa and withdraw the proctoscope

Step 6 - Clean the patient

Rigid Sigmoidoscopy for Medical Professionals

Description

This module teaches you how to prepare for and assist with a rigid sigmoidoscopy.

Learning objectives

- Describe and demonstrate the preparation for a rigid sigmoidoscopy.
- Describe pre-procedural considerations for a rigid sigmoidoscopy.
- Identify and demonstrate the proper positioning and technique for a rigid sigmoidoscopy.
- Identify the appropriate structures to inspect and examine.
- Describe and demonstrate how to perform a digital rectal examination.
- Describe and demonstrate how to insert a rigid sigmoidoscope.
- Describe and demonstrate how to advance the rigid sigmoidoscope and inspect the rectal mucosa.
- Describe and demonstrate how to remove the sigmoidoscope.
- Describe post-procedural considerations and documentation for a rigid sigmoidoscopy.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray Preparation
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Perform a digital rectal examination
- Step 3 - Lubricate the sigmoidoscope
- Step 4 - Introduce the sigmoidoscope into the rectum
- Step 5 - Attach the eyepiece to the sigmoidoscope
- Step 6 - Advance the sigmoidoscope into the rectum
- Step 7 - Gently withdraw the sigmoidoscope
- Step 8 - Clean the patient

Suprapubic Bladder Catheterization for Medical Professionals

Description

This module enables you to learn how to safely perform a suprapubic bladder catheterization.

Learning objectives

- Describe pre-procedural considerations for a suprapubic bladder catheterization.
- Describe and demonstrate the preparation for a suprapubic bladder catheterization.
- Identify the proper catheter type and size.
- Describe and demonstrate the proper procedure for cleansing the area and infiltrating local anesthetic.
- Identify and confirm proper bladder position.
- Describe and demonstrate how to make a skin incision and perform a suprapubic bladder catheterization.
- Describe and demonstrate how to insert and secure the catheter into the bladder.
- Describe and demonstrate how to insert the introducer into the bladder and confirm its position.
- Describe and demonstrate withdrawal of the cannula.
- Describe and demonstrate the correct post-procedure considerations.

Table of contents

- Step 1 - Preparation
 - Step 1.1 - Tray preparation
 - Step 1.2 - Patient preparation
 - Step 1.3 - Operator preparation
- Step 2 - Prepare the lower abdomen and test the equipment
 - Step 2.1 - Test the equipment
 - Step 2.2 - Prepare the lower abdomen
- Step 3 - Infiltrate local anesthetic and aspirate urine
 - Step 3.1 - Infiltrate local anesthetic
 - Step 3.2 - Aspirate urine to confirm bladder position

- Step 4 - Incision
- Step 5 - Insert the introducer into the bladder
- Step 6 - Insert the catheter
- Step 7 - Remove the cannula
- Step 8 - Secure the catheter

Swab Culture for Medical Professionals

Description

This module provides a detailed explanation of how to prepare for and obtain swabs for culture from the back of the throat and from wounds.

Learning objectives

- Describe and demonstrate the preparation for obtaining a wound or throat swab.
- Describe and demonstrate how to collect a wound specimen safely and correctly by swabbing or aspirating.
- Describe and demonstrate correct post-procedure considerations.
- Define and demonstrate correct recording and reporting.
- Understand and apply Occupational Safety and Health Administration (OSHA) guidelines.
- Define and use related medical terminology.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Obtain a throat swab

Step 3 - Obtain a wound specimen

Step 3.1 - Inspect the wound

Step 3.2 - Obtain a wound swab

Step 3.3 - Obtain a wound aspirate

Step 3.4 - Clean the wound

Step 4 - Complete the procedure

Capillary Puncture and Hematology Testing for Medical Professionals

Description

This module teaches you how to prepare for, perform, and document safe and correct techniques using capillary puncture.

Learning objectives

- Describe pre-procedure considerations for capillary puncture and hematology testing.
- Describe and demonstrate the preparation for capillary puncture.
- Describe laboratory safety according to OSHA guidelines.
- Describe and demonstrate correct identification of the collection site.
- Describe and demonstrate the correct technique for performing capillary puncture and collection.
- Describe and demonstrate how to perform and read a blood glucose test.
- Describe correct post-procedure considerations.
- Describe correct recording and reporting procedures.
- Define and use related medical terminology.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.1.1 - Glucose monitor

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Identify the appropriate collection site

Step 3 - Clean the site

Step 4 - Obtain the blood sample

Step 4.1 - Puncture the collection site

Step 4.2 - Point of care testing strip collection

Step 5 - Apply the dressing

Step 6 - Blood glucose level assessment

Step 7 - Complete the procedure

12-lead Electrocardiogram for Medical Professionals

Description

This SIMTICS module teaches you how to prepare for and record a 12-lead ECG.

Learning objectives

- Describe and demonstrate the preparation for performing an ECG.
- Describe the basic electrophysiology of the heart.

- Describe and explain the electrical heart views and properties of a 12-lead ECG.
- Describe and demonstrate how to perform an accurate 12-lead ECG.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Tray preparation

Step 1.2 - Patient preparation

Step 2 - Place electrodes

Step 2.1 - Place the limb electrodes

Step 2.1.1 - Bipolar limb leads

Step 2.1.2 - Unipolar limb leads: augmented leads

Step 2.2 - Place the chest electrodes

Step 2.2.1 - Unipolar leads: Chest leads

Step 3 - Record the ECG

Step 3.1 - Enter the patient's details into the machine

Step 3.2 - Check the machine is calibrated

Step 3.3 - Record the ECG

Step 3.4 - Annotate the presence of symptoms on the ECG tracing

Step 4 - Stress testing and Holter monitoring

ECG Interpretation for Medical Professionals

Description

This SIMTICS module teaches you how to prepare for, record, and interpret a 12-lead ECG.

Learning objectives

- Describe the anatomy and physiology of the heart
- Identify the basic electrophysiology of the heart
- Describe the sinus mechanisms
- Describe atrial rhythms
- Describe junctional rhythms
- Describe ventricular rhythms
- Describe atrioventricular (AV) blocks
- Describe pacemaker rhythms
- Explain and demonstrate the 12-lead ECG
- Describe stress testing and Holter monitoring

Table of contents

Introduction

Step 1 - Record the ECG

Step 1.1 - Annotate the presence of symptoms on the ECG tracing

Step 2 - Analyze the rhythm strip (2 lead)

Step 2.1 - Assess the rate

Step 2.1.1 - The 6-second ECG count

Step 2.1.2 - Count large squares

Step 2.1.3 - Count small squares

- Step 2.1.4 - Sequence method
- Step 2.2 - Assess the rhythm
 - Step 2.2.1 - Ventricular rhythm
 - Step 2.2.2 - Atrial rhythm
 - Step 2.2.3 - Regularity
- Step 2.3 - Identify and assess the P wave
- Step 2.4 - Assess the intervals (conduction)
 - Step 2.4.1 - PR interval
 - Step 2.4.2 - QRS duration
 - Step 2.4.3 - QT interval
- Step 2.5 - Evaluate overall appearance
- Step 3 - Sinus rhythms
 - Step 3.1 - Features of sinus rhythms
 - Step 3.2 - Sinus bradycardia
 - Step 3.3 - Sinus tachycardia
 - Step 3.4 - Sinus arrhythmia
 - Step 3.5 - Sinoatrial block
 - Step 3.6 - Sinus arrest
- Step 4 - Atrial arrhythmia
 - Step 4.1 - Premature atrial complexes (PACs)
 - Step 4.2 - Wandering atrial pacemaker
 - Step 4.3 - Multifocal atrial tachycardia
 - Step 4.4 - Supraventricular tachycardia
 - Step 4.4.1 - Atrial tachycardia
 - Step 4.4.2 - AVNRT
 - Step 4.4.3 - AVRT
 - Step 4.5 - Atrial flutter
 - Step 4.6 - Atrial fibrillation
- Step 5 - Junctional arrhythmia
 - Step 5.1 - Premature junctional complexes (PJC)s
 - Step 5.2 - Junctional escape beats/rhythm
 - Step 5.3 - Accelerated junctional rhythm
 - Step 5.4 - Junctional tachycardia
- Step 6 - Ventricular arrhythmia
 - Step 6.1 - Premature ventricular complexes
 - Step 6.1.1 - Types of PVC
 - Step 6.2 - Ventricular escape beats
 - Step 6.3 - Idioventricular rhythm
 - Step 6.4 - Accelerated idioventricular rhythm (AIVR)
 - Step 6.5 - Ventricular tachycardia (VT)
 - Step 6.5.1 - Types of VT
 - Step 6.6 - Ventricular fibrillation (VF)
 - Step 6.7 - Asystole
 - Step 6.8 - Pulseless electrical activity
- Step 7 - AV blocks
 - Step 7.1 - First-degree AV block
 - Step 7.2 - Second-degree AV block
 - Step 7.2.1 - Second-degree AV block type I (Wenckebach, or Mobitz type I)
 - Step 7.2.2 - Second-degree AV block type II (Mobitz type II)
 - Step 7.2.3 - Second-degree AV block, 2:1 conduction (2:1 AV block)
 - Step 7.3 - Third-degree/complete AV block
- Step 8 - Pacemaker rhythms
 - Step 8.1 - Pacemaker terminology
 - Step 8.2 - Pacemaker systems
 - Step 8.2.1 - Single-chamber pacemakers
 - Step 8.2.2 - Dual-chamber pacemakers

- Step 8.2.3 - Transcutaneous pacing
- Step 8.3 - Pacemaker malfunction and complications
- Step 8.4 - Analyzing pacemaker function with an ECG
- Step 9 - Interpret the 12-lead ECG
 - Step 9.1 - Normal 12-lead ECG
 - Step 9.1.1 - Leads
 - Step 9.1.2 - Layout of the 12-lead ECG
 - Step 9.2 - Axis
 - Step 9.2.1 - Vectors
 - Step 9.2.2 - Einthoven's triangle/Hexaxial reference system
 - Step 9.2.3 - Two-lead method of axis determination
 - Step 9.3 - Myocardial ischemia
 - Step 9.3.1 - ST segment changes
 - Step 9.3.2 - T wave changes
 - Step 9.4 - Myocardial infarction
 - Step 9.4.1 - ST changes
 - Step 9.4.2 - T wave changes
 - Step 9.4.3 - Q waves
 - Step 9.5 - Pericarditis
 - Step 9.6 - Pericardial effusion
 - Step 9.7 - Electrolyte imbalance
 - Step 9.7.1 - Imbalance of sodium ions
 - Step 9.7.2 - Imbalance of calcium ions
 - Step 9.7.3 - Imbalance of magnesium ions
 - Step 9.7.4 - Imbalance of potassium ions
 - Step 9.8 - Conduction abnormalities
 - Step 9.8.1 - Right bundle branch block
 - Step 9.8.2 - Left bundle branch block
 - Step 9.9 - Analyzing an ECG
 - Step 9.9.1 - Systematic method
- Step 10 - Stress testing and Holter monitoring

Irrigate the Ear and Instill Ear Medication for Medical Professionals

Description

This module provides an overview of how to prepare for and perform irrigation of the patient's ear and instill ear medication.

Learning objectives

- Describe and demonstrate the preparation for ear irrigation and for instillation of medication into an ear.
- Describe and demonstrate how to perform safe ear irrigation.
- Describe and demonstrate how to instill medication safely into a patient's ear.
- Understand and apply drug administration safety guidelines (seven rights).
- Describe and demonstrate correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Understand and apply OSHA guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Position the patient

Step 2.1 - Ear irrigation

Step 2.2 - Medication instillation

Step 3 - Irrigate the ear

Step 3.1 - Prepare the ear for irrigation

Step 3.2 - Irrigate the ear

Step 4 - Instill ear medication

Step 4.1 - Prepare the medication for ear instillation

Step 4.2 - Instill the medication

Step 5 - Complete the procedure

Irrigate the Eye and Instill Eye Medication for Medical Professionals

Description

This module teaches you how to prepare for and perform irrigation of the patient's eye and instill eye medication.

Learning objectives

- Describe and demonstrate the preparation for eye irrigation and for instillation of medication into an eye.
- Describe and demonstrate how to perform safe and correct eye irrigation.
- Describe and demonstrate how to instill medication safely into a patient's eye.
- Understand and apply drug administration safety guidelines (seven rights).
- Describe and demonstrate correct post-procedure considerations.
- Define and demonstrate correct recording and reporting.
- Understand and apply OSHA guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Position the patient

Step 2.1 - Eye irrigation

Step 2.2 - Medication instillation

Step 3 - Irrigate the eye

Step 3.1 - Clean the eye

- Step 3.2 - Prepare the solution for eye irrigation
 - Step 3.2.1 - Pre-packaged dispenser
 - Step 3.2.2 - Stock solution
 - Step 3.2.3 - Pre-packaged bag of solution
- Step 3.3 - Irrigate the eye
- Step 4 - Instill eye medication
 - Step 4.1 - Prepare the medication for eye instillation
 - Step 4.2 - Instill the medication
- Step 5 - Complete the procedure

Minor Surgical Procedures for Medical Professionals

Description

This module explains how to prepare for, and safely assist with, minor surgical procedures such as irrigating and cleaning a wound, suturing a laceration, or removing a foreign entity or a small growth.

Learning objectives

- Describe and demonstrate the preparation for minor surgical procedures.
- Understand and apply the principles of an aseptic technique.
- Describe common minor surgical procedures and specify the role of the medical assistant in those.
- Describe and demonstrate how to maintain a sterile field during minor surgical procedures.
- Describe and demonstrate how to assist effectively and correctly with minor surgical procedures.
- Describe and demonstrate how to apply a dressing after a minor surgical procedure.
- Describe and demonstrate correct post-procedure considerations.
- Understand and apply Occupational Safety & Health Administration (OSHA) guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

- Introduction
- Step 1 - Preparation
 - Step 1.1 - Equipment preparation
 - Step 1.2 - Medical professional preparation
 - Step 1.3 - Patient preparation
- Step 2 - Drape the surgical site
 - Step 2.1 - Drape the site with a fenestrated drape
 - Step 2.2 - Drape the site with square drapes
- Step 3 - Assist during administration of anesthetic
- Step 4 - Assist during surgery
 - Step 4.1 - Assist when surgery commences
 - Step 4.2 - Assist during surgery
 - Step 4.3 - Assist with completion of the surgery
- Step 5 - Apply a dressing
- Step 6 - Complete the procedure

Nebulizer Treatment and Peak Flow Assessment for Medical Professionals

Description

This module covers how to prepare for and administer nebulizer treatment, assess peak flow and perform a spirometric test.

Learning objectives

- Describe and demonstrate the preparation for administering nebulizer treatment and assessing peak flow.
- Describe and demonstrate how to perform a peak flow test.
- Describe and demonstrate how to perform nebulizer treatment.
- Describe and demonstrate how to perform a spirometric test.
- Understand and apply Occupational Safety & Health Administration (OSHA) guidelines.
- Understand and apply the "seven rights" of drug administration.
- Describe and demonstrate the correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Define and use related medical terminology.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patient's Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.1.1 - Peak flow meter

Step 1.1.2 - Nebulizer

Step 1.1.3 - Spirometer

Step 1.2 - Medical professional preparation

Step 2 - Perform a peak flow meter test

Step 2.1 - Instruction on technique

Step 2.2 - Perform the test

Step 3 - Administer nebulizer treatment

Step 3.1 - Assess the patient

Step 3.2 - Prepare the medication

Step 3.3 - Position the patient

Step 3.4 - Commence treatment

Step 4 - Perform a spirometric test

Step 4.1 - Assess the patient

Step 4.2 - Position the patient

Step 4.3 - Practice the maneuver

Step 4.4 - Perform the forced volume capacity test

Step 5 - Complete the procedure

Preparation for Minor Surgical Procedures for Medical Professionals

Description

This module provides an overview of how to prepare for minor surgical procedures, correctly open the surgical instrument pack, and add required sterile instruments, while using a sterile technique.

Learning objectives

- Describe and demonstrate the process for opening a sterile pack and creating a sterile field.
- Describe and demonstrate the process for transferring sterile instruments.
- Describe and demonstrate the process for pouring sterile solution onto a sterile field.
- Describe and demonstrate correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Understand and apply Occupational Safety & Health Administration (OSHA) guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Open a sterile pack and create a sterile field

Step 3 - Transfer sterile instruments using forceps

Step 4 - Pour sterile solution onto a sterile field

Step 5 - Complete the setup

Skin Preparation for Medical Professionals

Description

This module provides an overview of how to perform skin preparation for minor surgical procedures.

Learning objectives

- Understand the purpose and importance of pre-surgery skin preparation.
- Describe and demonstrate how to prepare for and perform the procedure.
- Describe the correct post-procedure considerations.
- Define and demonstrate correct recording and reporting.
- Understand and apply Occupational Safety & Health Administration (OSHA) guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

- Introduction
- Step 1 - Preparation
 - Step 1.1 - Equipment preparation
 - Step 1.1.1 - Prepare the room
 - Step 1.1.2 - Assemble the equipment
 - Step 1.2 - Medical professional preparation
 - Step 1.3 - Patient preparation
- Step 2 - Expose the skin
- Step 3 - Scrub the skin
 - Step 3.1 - Remove body hair, if required
 - Step 3.2 - Repeat the skin scrub
- Step 4 - Paint the skin with antiseptic solution
- Step 5 - Complete the skin preparation

Suture Removal for Medical Professionals

Description

This module provides a detailed explanation of how to remove sutures.

Learning objectives

- Describe and demonstrate the preparation for suture removal.
- Describe and demonstrate sterile technique.
- Describe different suture types and the appropriate situations for their use.
- Describe and demonstrate suture removal.
- Describe wound healing.
- Describe and demonstrate wound care.
- Describe and demonstrate correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Understand and apply Occupational Safety & Health Administration (OSHA) guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

- Introduction
- Step 1 - Preparation
 - Step 1.1 - Equipment preparation
 - Step 1.2 - Medical professional preparation
 - Step 1.3 - Patient preparation
- Step 2 - Expose the wound
 - Step 2.1 - Position the patient
 - Step 2.2 - Medical professional position
- Step 3 - Inspect the suture line
- Step 4 - Remove the sutures
- Step 5 - Apply the dressing
- Step 6 - Complete the procedure

Obtain Adult Vital Signs for Medical Professionals

Description

This module provides a thorough introduction to the process of obtaining adult vital signs, covering body temperatures, pulse rates, respiratory rates, and blood pressures.

Learning objectives

- Describe and demonstrate the preparation for taking an adult's vital signs.
- Define normal values for adult vital signs, including average body temperatures, pulse rates, respiratory rates, and blood pressures.
- Describe and demonstrate how to take a patient's oral, aural, and axillary temperatures accurately.
- Describe and demonstrate how to obtain apical and radial pulse rate, volume, and rhythm accurately.
- Describe and demonstrate how to take a respiration rate accurately.
- Describe and demonstrate how to take blood pressure accurately and differentiate the Korotkoff phases.
- Know the correct post-procedure considerations.
- Define and demonstrate correct recording and reporting procedures.
- Understand and apply Occupational Safety & Health Administration (OSHA) guidelines.
- Explain the Patient Privacy Rule (HIPAA), Patient Safety Act, and Patients' Bill of Rights.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Obtain the patient's temperature

Step 2.1 - Oral temperature

Step 2.2 - Aural temperature

Step 2.3 - Axillary temperature

Step 3 - Obtain the patient's pulse

Step 3.1 - Apical pulse

Step 3.2 - Radial pulse

Step 4 - Obtain respiratory rates

Step 5 - Obtain blood pressure

Step 5.1 - Select an arm and cuff

Step 5.2 - Position the cuff

Step 5.3 - Estimate the systolic pressure

Step 5.4 - Obtain blood pressure

Step 5.5 - Complete the blood pressure reading

Step 5.6 - Automatic blood pressure cuff

Step 6 - Obtain oxygen saturation level using pulse oximetry

Step 7 - Complete the procedure

Obtain Pediatric Vital Signs for Medical Professionals

Description

This module provides a detailed introduction to the process of obtaining pediatric vital signs, covering body temperatures, pulse rates, respiratory rates, and blood pressures.

Learning objectives

- Describe pre-procedure considerations for taking pediatric vital signs.
- Describe and demonstrate the preparation for taking pediatric vital signs.
- Define normal values for pediatric vital signs, including average body temperature, pulse rates, respiratory rates, and blood pressure.
- Understand and describe factors that affect body temperature, pulse rates, respiration rates, and blood pressure.
- Describe and demonstrate how to take pediatric aural and axillary temperature accurately.
- Describe and demonstrate how to obtain pediatric apical and brachial pulse rate, volume, and rhythm accurately.
- Describe and demonstrate how to obtain pediatric respiration rate accurately.
- Describe and demonstrate how to obtain an accurate pediatric blood pressure reading and how to differentiate the Korotkoff phases.
- Understand and apply Occupational Safety & Health Administration (OSHA) guidelines.
- Describe and demonstrate correct post-procedure considerations.
- Define and demonstrate correct recording and reporting.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Obtain the child's temperature

Step 2.1 - Temporal temperature

Step 2.2 - Aural temperature

Step 2.3 - Axillary temperature

Step 2.4 - Rectal temperature

Step 3 - Obtain the child's pulse

Step 3.1 - Apical pulse

Step 3.2 - Brachial pulse

Step 4 - Obtain the child's respiratory rate

Step 5 - Obtain the child's blood pressure

Step 5.1 - Select an arm and cuff

Step 5.2 - Position the cuff

Step 5.3 - Estimate the systolic pressure

Step 5.4 - Obtain the blood pressure

Step 5.5 - Complete the blood pressure reading

Step 5.6 - Automatic blood pressure cuff

Step 6 - Obtain oxygen saturation level using pulse oximetry

Step 7 - Complete the procedure

Pediatric Assessment (Infant) for Medical Professionals

Description

This module provides a detailed introduction to the process of conducting a pediatric assessment, covering how to safely assess the head circumference, weight and length measurements in infants.

Learning objectives

- Describe pre-procedure considerations related to pediatric assessment (infant).
- Describe and demonstrate the preparation for pediatric assessment (infant).
- Describe and demonstrate approaches for interacting with the infant and the parent/caregiver.
- Describe and demonstrate how to measure an infant's head circumference, length, and weight accurately.
- Describe growth charts and their purpose.
- Understand and apply Occupational Safety and Health Administration (OSHA) guidelines.
- Understand correct post-procedure considerations.
- Define and demonstrate correct documentation and plotting on growth charts.
- Describe and demonstrate how to convert imperial to metric measurements and vice-versa.

Table of contents

Introduction

Step 1 - Preparation

Step 1.1 - Equipment preparation

Step 1.2 - Medical professional preparation

Step 1.3 - Patient preparation

Step 2 - Measure the infant's head circumference

Step 3 - Measure the infant's weight

Step 3.1 - Using a balance scale

Step 3.2 - Using an electronic scale

Step 4 - Measure the infant's length

Step 4.1 - Using a pediatric measuring table or mat

Step 4.2 - Using the examination table

Step 5 - Complete the procedure